

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently amended) A method for testing the motion performance of an
2 electronic display system, wherein the electronic display system is comprised of a
3 display, graphics processing software, graphics processing circuitry, and an
4 interface coupling the display and the graphics processor, the method comprising:
5 receiving a set of test parameters;
6 using the set of test parameters to generate a video image of an object in
7 motion;
8 displaying the video image of the object in motion on the display; and
9 measuring the amount of distortion in the shape of the object in motion
10 relative to the shape of the object in a stationary state.

1 2. (Original) The method of claim 1, wherein the method further
2 comprises;
3 displaying a second object; and
4 measuring the amount of distortion caused by the interaction of the second
5 object with the object in motion, wherein measuring the amount of distortion of
6 the object in motion relative to the object in the stationary state further involves:
7 placing a ruler on a boundary of the object where the
8 distortion occurs,
9 increasing a width of the ruler until the ruler covers the
10 distortion, and

11 | measuring the width of the ruler to determine the size of the
12 | distortion.

1 3. (Original) The method of claim 1, further comprising:
2 receiving a request to change an attribute of the object in motion; and
3 in response to the request, changing an attribute of the object in motion.

1 4. (Original) The method of claim 3, wherein the attributes can include one
2 of color, size, shape, shading, fill pattern, speed, direction of movement, and type
3 of movement.

1 5 (Canceled).

1 | 6. (Currently amended) The method of claim 1-claim-5, further comprising
2 displaying the ruler every n^{th} refresh cycle to minimize distortion of the ruler.

1 | 7. (Currently amended) The method of claim 1-claim-5, further comprising
2 using the width of the ruler to determine response time of the pixels in the display.

1 8. (Original) The method of claim 1, wherein the distortion can include
2 one of:
3 flickering;
4 flashing;
5 smearing;
6 blurring;
7 line spreading;
8 geometric distortion;
9 color-induced artifacts; and

10 inaccurate color reproduction.

1 9. (Original) The method of claim 1, further comprising storing the set of
2 test parameters to a storage medium to facilitate producing an identical set of test
3 parameters during a subsequent test.

1 10. (Original) The method of claim 1, further comprising recording the
2 measured distortion on a storage medium.

1 11. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method for testing the motion performance of an electronic display system,
4 wherein the electronic display system is comprised of a display, graphics
5 processing software, graphics processing circuitry, and an interface coupling the
6 display and the graphics processing circuitry, the method comprising:
7 receiving a set of test parameters;
8 using the set of test parameters to generate a video image of an object in
9 motion;
10 displaying the video image of the object in motion on the display; and
11 measuring the amount of distortion in the shape of the object in motion
12 relative to the shape of the object in a stationary state. , wherein measuring the
13 amount of distortion of the object in motion relative to the object in the stationary
14 state further involves:
15 placing a ruler on a boundary of the object where the
16 distortion occurs,
17 increasing a width of the ruler until the ruler covers the
18 distortion, and

19 | measuring the width of the ruler to determine the size of the
20 | distortion

1 12. (Original) The computer-readable storage medium of claim 11,
2 wherein the method further comprises:
3 displaying a second object; and
4 measuring the amount of distortion caused by the interaction of the second
5 object with the object in motion.

1 13. (Original) The computer-readable storage medium of claim 11,
2 wherein the method further comprises:
3 receiving a request to change an attribute of the object in motion; and
4 in response to the request, changing an attribute of the object in motion.

1 14. (Original) The computer-readable storage medium of claim 13,
2 wherein the attributes can include one of color, size, shape, shading, fill pattern,
3 speed, direction of movement, and type of movement.

1 15 (Canceled).

1 | 16. (Currently amended) The computer-readable storage medium of claim
2 | 11-claim 15, wherein the method further comprises displaying the ruler every n^{th}
3 refresh cycle to minimize distortion of the ruler.

1 | 17. (Currently amended) The computer-readable storage medium of claim
2 | 11-claim 15, wherein the method further comprises using the width of the ruler to
3 determine response time of the pixels in the display.

1 18. (Original) The computer-readable storage medium of claim 11,
2 wherein the distortion can include one of:
3 flickering;
4 flashing;
5 smearing;
6 blurring;
7 line spreading;
8 geometric distorting;
9 color-induced artifacts; and
10 inaccurate color reproduction.

1 19. (Original) The computer-readable storage medium of claim 11,
2 wherein the method further comprises storing the set of test parameters to a
3 storage medium to facilitate producing an identical set of test parameters during a
4 subsequent test.

1 20. (Original) The computer-readable storage medium of claim 11,
2 wherein the method further comprises recording the measured distortion on a
3 storage medium.

1 21. (Currently amended) An apparatus for testing the motion performance
2 of an electronic display system, wherein the electronic display system is
3 comprised of a display, graphics processing software, graphics processing
4 circuitry, and an interface coupling the display and the graphics processing
5 circuitry, comprising:
6 a receiving mechanism configured to receive a set of test parameters;
7 a graphics mechanism configured to use the set of test parameters to
8 generate a video image of an object in motion;

9 a display mechanism configured to display the video image of the object in
10 motion on the display; and
11 a measurement mechanism configured to measure the amount of distortion
12 in the shape of the object in motion relative to the shape of the object in a
13 stationary state, wherein the measurement mechanism is further configured to:
14 place a ruler on a boundary of the object where the
15 distortion occurs,
16 increase a width of the ruler until the ruler covers the
17 distortion, and
18 measure the width of the ruler to determine the size of the
19 distortion.

1 22. (Original) The apparatus of claim 21, wherein the display mechanism
2 is further configured to display a second object, and the measurement mechanism
3 is further configured to measure the amount of distortion caused by the interaction
4 of the second object with the object in motion.

1 23. (Original) The apparatus of claim 21, wherein the receiving
2 mechanism is further configured to receive a request to change an attribute of the
3 object in motion, and in response to the request, to change an attribute of the
4 object in motion.

1 24. (Original) The apparatus of claim 23, wherein the attributes can
2 include one of color, size, shape, shading, fill pattern, speed, direction of
3 movement, and type of movement.

1 25 (Canceled).

1 | 26. (Currently amended) The apparatus of claim 21 ~~claim 25~~, wherein the
2 | measurement mechanism is further configured to display the ruler every n^{th}
3 | refresh cycle to minimize distortion of the ruler.

1 | 27. (Currently amended) The apparatus of claim 21 ~~claim 25~~, wherein the
2 | measurement mechanism is further configured to use the width of the ruler to
3 | determine response time of the pixels in the display.

1 | 28. (Original) The apparatus of claim 21, wherein the distortion can
2 | include one of:
3 | flickering;
4 | flashing;
5 | smearing;
6 | blurring;
7 | line spreading;
8 | geometric distorting;
9 | color-induced artifacts; and
10 | inaccurate color reproduction.

1 | 29. (Original) The apparatus of claim 21, further comprising a storage
2 | mechanism configured to store the set of test parameters to a storage medium to
3 | facilitate producing an identical set of test parameters during a subsequent test.

1 | 30. (Original) The apparatus of claim 21, further comprising a recording
2 | mechanism configured to record the measured distortion on a storage medium.